

IN THE CLAIMS

1. (Currently Amended) A multi-process display method of displaying processes to be debugged in a debugger system; comprising the steps of:

monitoring and detecting ~~acquiring~~ an operation state change of each process into the debugger system;

acquiring the detected operation change of each process into the debugger system;

representing each process using a predetermined pattern graphic symbol;

representing a relationship between the processes using a layout of ~~patterns~~ graphic symbols and lines therebetween; and

representing the operation state of each process using a particular display mode for the ~~pattern~~ graphic symbol; and

updating the display mode indicating the operation state of each process when detecting the operation state change.

2. (Currently Amended) A multi-process display method according to claim 1, further comprising the step of acquiring detailed information of each process together with the operation state change thereof into the debugger system and displaying and updating the detailed information ~~and the operation state change.~~

3. (Currently Amended) A multi-process display method according to claim 2, further comprising the steps of:

storing an operation state change reported from each process in a table for each process; ~~and,~~

wherein the operation state change is detected by monitoring the table

~~updating, when a new operation state change of a process is reported, the table of the process, the display of the pattern, and the display of the detailed information.~~

4. (Currently Amended) A multi-process display method according to claim 1, wherein the relationship between the processes is a parent-child relationship or a brother

relationship and the relationship is displayed in a family-tree form.

5. (Original) A multi-process display method according to claim 1, wherein the operation states of each process include generation, start, halt, resume, and end of the process.

6. (Currently Amended) A multi-process display method according to claim 2, wherein the pattern-operation state display and the detailed information display are conducted on one screen.

7. (Currently Amended) A multi-process display method according to claim 2, wherein the pattern-operation state display and the detailed information display are performed, in response to operation of a mouse/keyboard indicating one of the processes on either one of the displays, in an emphasized mode in relation to each other.

8. (Currently Amended) A debugger system, comprising:
monitoring and detecting an operation state change
of each process of multiple processes to be debugged;
_____ means for acquiring an-the detected operation state
change of each process of multiple processes to be debugged;
and
pattern display means for displaying each process
using a predetermined-pattern graphic symbol, displaying a
relationship between the processes using a layout of patterns
graphic symbol and lines therebetween, and displaying the
operation state of each process using a particular display
mode for the-pattern graphic symbol, and updating the display
mode indicating the operation state of each process when
detecting the operation state change.

9. (Currently Amended) A debugger system according to
claim 8, further comprising detailed information display means
for acquiring detailed information of each process together
with the operation state change thereof and displaying and
updating the detailed information-and-the operation state
change.

10. (Currently Amended) A program ~~storage~~ storing device readable by a machine, tangibly embodying a program of instructions executable by ~~the~~ a machine to perform method steps for debugging multi-processes, said method steps comprising steps of:

monitoring and detecting an operation state change of each process of multiple processes to be debugged;

acquiring ~~an~~ the detected operation state change and detailed information of each process;

displaying each process using a predetermined ~~pattern~~ graphic symbol;

displaying a relationship between the processes using a layout of ~~patterns~~ graphic symbols and lines therebetween;

displaying the operation state of each process using a particular display mode for the ~~pattern~~ graphic symbol; and

displaying the detailed information of each process;
and

updating the display mode indicating the operation state of each process and the detailed information when detecting the operation state change.

11. (New) A multi-process display method according to claim 5, wherein the graphic symbol representing the process is a rectangle and the particular display mode representing the operation state corresponds to a frame type of the rectangle.

12. (New) A multi-process display method according to claim 11, wherein the stated or resumed process is drawn with a bold-line frame, the halted process is drawn with a thin-line frame that is thinner than said bold-line frame, and the ended process is drawn with a dotted-line frame.